

Practice

For use with pages 253–257

Solve the equation by first clearing the fractions.

1. $-\frac{17}{31}x + \frac{7}{31} = \frac{15}{31}$

2. $\frac{1}{12} - \frac{2}{3}x = \frac{1}{3}$

3. $\frac{8}{17}x + \frac{5}{34} = \frac{6}{17}$

4. $\frac{2}{3} = \frac{7}{9}x + \frac{11}{36}$

5. $\frac{1}{6} - \frac{1}{3}x = \frac{2}{3}$

6. $\frac{6}{11} = \frac{1}{4} + \frac{7}{11}x$

7. $\frac{2}{3}x - \frac{1}{6} = \frac{2}{7}$

8. $\frac{7}{20} = \frac{1}{6} + \frac{1}{2}x$

9. $\frac{5}{16} = \frac{1}{6} - \frac{7}{12}x$

Solve the equation by first clearing the decimals.

10. $2.3x + 9.2 = 23$

11. $9.6 - 2.4x = -24$

12. $-3.9 = 2.6x + 1.56$

13. $6.1x + 20.74 = -51.85$

14. $26.4 = 6.6x + 10.56$

15. $4.5x + 15.3 = -38.25$

16. $1.55 = -3.1x - 0.62$

17. $81.9 = 32.76 + 9.1x$

18. $-0.24 = 0.96 - 0.6x$

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Solve the inequality.

19. $\frac{1}{4} \leq \frac{1}{16} - \frac{1}{2}x$

20. $-\frac{5}{9}x - \frac{1}{9} < \frac{1}{3}$

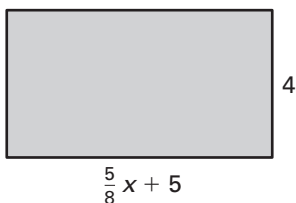
21. $\frac{8}{17}x + \frac{5}{34} > \frac{6}{17}$

22. $\frac{9}{40} - \frac{3}{5}x < \frac{1}{2}$

23. $\frac{1}{5} \leq \frac{1}{15} - \frac{1}{2}x$

24. $\frac{1}{5} \geq \frac{1}{6} - \frac{2}{3}x$

25. Describe the possible values of x if the area of the rectangle is at least 40 square inches.



26. You need to exchange some of your U.S. dollars for European euros (€). For every U.S. dollar, you can get €0.866 in European euros. If you already have €187.22 in European euros, how much in U.S. dollars do you need to exchange to have €360.42 in European euros?